BRUHAT BENGALURU MAHANAGARA PALIKE

EXECUTIVE ENGINEER (ELECRICALS) DASARAHALLI ZONE

Schedule -B

Indent Number:BBMP/2022-23/EL/WORK_INDENT56071

Name Of Work:Replacement of Burntout UG Cable,Panels boards and Its accessories coming under Dasarahalli Zone Parks 16,17,18,19,20,21

Rates Quoted by Contractor M/s. NINGEGOWDA M J (CHOWDESHWARI ELECTRICALS)

SNo	Item Name	Unit	Estimate Quantity	In Figures (Rs.)	In Words (Rs.)
1	Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material, delivering superior light output Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, maximum light Intensity should be between 60 degrees to 70 degrees. CCT > 5500K, IP66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0 9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED Source.LED Streetlight 25 Watts	No	26	1360.0	Rupees One Thousand Three Hundred Sixty Only
2	Fabricating, supplying and erection of ... ms long hot dip Galvanized Octagonal hot dip Pole with BSEN 10025 grade S355 JO steel plate for shaft, IS 2062 for base plate with dooropening arrangements, including suitable boards, Bakelitesheet and MCBs as per IS specifications suitable to withstandthe wind speed of 47 m/s for .....m Pole in single section andsingle joint welded as per IS 9595/IS10178AWS havingdimensions bottom ..... mm , top.... mm with 3 mm thick,suitable base plate and 4Nos of ..... long J bolts along withtemplate and the Pole shall be hot dip galvanized in singledipping with not less than 65micron as per ASTM-A123 and 153etc., (excluding foundation) as per drawing appended.3 m - Top 70 mm and Bottom 130 mm dia	Each	26	3856.28	Rupees Three Thousand Eight Hundred Fifty Six And Paise Twenty Eight Only
3	Supplying, and fixing of Hot dip Galvanized M.S.Bracketsuitable for out door luminaries and mounted on Octagonalpole using necessary bolts, nuts etc., complete Single Arm Bracket with 1000 mm Standard 40/50 mm dia	Each	25	1049.92	Rupees One Thousand Forty Nine And Paise Ninety Two Only

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4	Supply of LED floodlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate/clear glass material, delivering superior light output Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mauling with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100 V to 270V 50/60Hz application. Compliance to IS 10322/ IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with ..... W System Power consumption. LED Efficiency> 1301m/w, nominal CRI >75. Luminaire manufacturer should have in- house facility accredited by NABL / CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Housing with supplier word mark / name shall be Engraved / Embossing on the die cast housing / Body part Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/Lumileds/Osram make LED Source.LED Floodlight 240W	Each	6	13597.28	Rupees Thirteen Thousand Five Hundred Ninety Seven And Paise Twenty Eight Only
5	Fixing halogen/metal halide /SVL/IL/LED floodlight fitting over existing pole / wall ceiling including clA, bolts, nuts and wiring using suitable capacity wires	Each	6	128.52	Rupees One Hundred Twenty Eight And Paise Fifty Two Only
6	Earth work excavation for Foundation by mechanical means for all works & depth upto 3 m, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenaces required to complete the work (V-I.No 1.4.1,Page No-5 PWD SR 2021-22) Depth upto 3 m,	Cum	11.65	49.64	Rupees Forty Nine And Paise Sixty Four Only

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7	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates (V-1, P.No-15, I No-2.1.3 of PWD SR 2021-22)	Cum	0.8424	4302.5	Rupees Four Thousand Three Hundred Two And Paise Fifty Only
8	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications.(V-III, I.No 13.1 Page No 99, PWD SR 2021-22)	Kgs	359.49	58.84	Rupees Fifty Eight And Paise Eighty Four Only
9	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (V-1,P.No.17, I.No.2.4.2 of PWD SR 2021-22)	Cum	4.9	6026.49	Rupees Six Thousand Twenty Six And Paise Forty Nine Only
10	7. Crane hiring charges for substation works 1. Up to 5 hours	Hour	10	1020.0	Rupees One Thousand Twenty Only
11	Earth work excavation for cable trench of 0.4 to 0.5 Mtr. Width and Depthupto 1 Mtr including trial pits, depositing on bank upto a lead of 50 Mtr,Supplying and Displaying necessary Danger Boards and Lighting, Using sightRails and Sign Boards at every 100 Mtr wherever necessary as directed.	Cmt	130	176.8	Rupees One Hundred Seventy Six And Paise Eighty Only
12	COST DATA SHEET - 19For Laying of 1 KM Length of 11 kV, 3x95 Sqmm XLPE UG Cable Using Conventional Laying with Excavation of Soil b) Laying of cable in trench	Km	0.8	30793.12	Rupees Thirty Thousand Seven Hundred Ninety Three And Paise Twelve Only

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13	Wiring for lighting/power circuit using one of FRLS PVCinsulated 1100V grade, multistrand copper wire with lowconductor resistance single core in open or concealed system ofwiring with specified IS-694 confirming to latest amendments. 1.5 mm2	Mtr	276	17.68	Rupees Seven And Paise Eight Only
14	6 mm2	Mtr	20	59.16	Rupees Fifty Nine And Paise Sixteen Only
15	abricating supplying and mounting MS box made out...SWG suitable for floor /wall mounting, fully weather proofwith provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clA with necessary cable entry pipe with gland and box should be finished with 7tanks treatment with powder coated paint and finally finishedwith approved colour etc., complete.16 SWG	cm	140000	0.26	Rupees And Paise Twenty Six Only
16	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. Flat.....with bolts, washers etc., andpainted with 2 coats of red oxide and then two coats of approved paint. 40 x 40 x 6 mm	Mtr	15	187.0	Rupees One Hundred Eighty Seven Only
17	Supplying and fixing hylum plastic sheet 3mm thick with necessary nitches for fixing switches, regulators etc., and fixing on existing wood or metal box using N. F. screws	cm	40000	0.18	Rupees And Paise Eighteen Only
18	Supplying and fixing Moulded Case Circuit Breaker (MCCB)over the existing wood/panel board using necessary screws,bolts, nuts, necessary phase separators, handle and wiringcomplete. Protection of Overload and Short circuit in ThermalMagnetic Release. Micro processor release shall have Earth Fault as per IS-13947. (Icu=100% Ics). In 4P MCCB, all Polesshould have protection for Short-Cicrcuit/Over Load. ForMicroprocessor MCCBS Facility for segregating Priority andNon-Priority loads must be available in the MCCB. MCCB shallbe provided with double insulation (insulation between frontcover and internal power circuits to avoid any accidentalcontact with live current carrying path with the front coveropen). Multi-pole breakers shall be designed to break all thepoles simultaneously and they shall have a single mechanism. 100 A 25 kA	Each	4	5620.2	Rupees Five Thousand Six Hundred Twenty And Paise Twenty Only
19	Supplying & fixing miniature circuit breakers on existingMCB distribution boards using necessary fixing materialsand 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring asrequired confirming to IEC 60898.50-63 A TPN	Each	5	1631.32	Rupees One Thousand Six Hundred Thirty One And Paise Thirty Two Only
20	Supplying and fixing Microprocessor Based Astronomical timerSwitch with using necessary bolts, nuts and washers.	Each	4	2959.36	Rupees Two Thousand Nine Hundred Fifty Nine And Paise Thirty Six Only

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	Supply and fixing of 4pole power contactor with NO/NCcontacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947. 100 to 125 A	Each	4	6120.68	Rupees Six Thousand One Hundred Twenty And Paise Sixty Eight Only
22	1.1 kV, XLPE or Heat resistant PVC Insulated, PVC exutruted Inner Seath Armoured LTUG Cable as per IS-1554 (Part 1) or IS-7098 Part-1, Armouring strip thickness and resistivity as per IS-3975 16 Sqmm, 4 Core, (11 GI Strips - 4 x 0.8 mm)	Km	0.75	124740.56	Rupees One Lakh(s) Twenty Four Thousand Seven Hundred Forty And Paise Fifty Six Only
23	25 Sqmm, 4 Core, (13 GI Strips - 4 x 0.8 mm)	Km	0.15	163752.84	Rupees One Lakh(s) Sixty Three Thousand Seven Hundred Fifty Two And Paise Eighty Four Only

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